

Sequence Alignment

RESULT 2
 AAY50932
 ID AAY50932 standard; Protein; 441 AA.
 XX
 AC AAY50932;
 XX
 DT 10-MAR-2000 (first entry)
 XX
 DE Human fetal brain cDNA clone vc26_1 derived protein #1.
 XX
 KW Human; secreted protein; treatment; nutritional activity; cytokine;
 KW cell proliferation; cell differentiation; hematopoiesis regulation;
 KW tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
 KW thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
 KW gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN W09955721-A1.
 XX
 PD 04-NOV-1999.
 XX
 PF 23-APR-1999; 99WO-US08504.
 XX
 PR 24-APR-1998; 98US-0082904.
 PR 11-JUN-1998; 98US-0088994.
 PR 12-JUN-1998; 98US-0089278.
 PR 02-JUL-1998; 98US-0091647.
 PR 24-AUG-1998; 98US-0097639.
 PR 22-APR-1999; 99US-0097639.
 XX
 PA (ALPH-) ALPHAGENE INC.
 XX
 PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
 XX
 DR WPI; 2000-052801/04.
 DR N-PSDB; AAZ43798.
 XX
 PT New polynucleotides encoding secreted human proteins, derived from
 PT human fetal brain, adult skin, adult brain, adult heart, adult thymus
 PT and adult aorta cDNA libraries.
 XX
 PS Claim 53a; Page 246-247; 282pp; English.
 XX
 CC This invention describes novel human secreted proteins which are encoded
 CC by polynucleotides obtained from fetal brain, adult skin, adult brain,
 CC adult heart, adult thymus and adult aorta cDNA libraries. The
 CC polynucleotides and proteins are predicted to have biological activities
 CC which would make them suitable for treating, preventing or ameliorating
 CC medical conditions in humans and animals, although no supporting data
 CC is given. Suggested activities include nutritional activity, cytokine
 CC and cell proliferation/differentiation activity, immune stimulating
 CC (e.g. as vaccines) or suppressing activity, hematopoiesis regulating
 CC activity, tissue growth activity, activin/inhibin activity,
 CC chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
 CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
 CC invasion suppressor activity, and tumor inhibition activity. The
 CC polynucleotides are also stated to be useful for gene therapy.
 CC AAY50905-Y50947 represent the secreted proteins described in the method
 CC of the invention which are encoded by the polynucleotides represented in
 CC AAZ43777-243808.
 XX
 SQ Sequence 441 AA;

Query Match 100.0%; Score 2326; DB 21; Length 441;
 Best Local Similarity 100.0%; Pred. No. 6.5e-241;
 Matches 441; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
Db	1	maihkalvmclglplflfpgawaqghvppgcsqglnplyynlcdrsgawgivleavagag	60
QY	61	IVTTFVLTIILVASLFPVQDTKKRSLGLTQVFFLLGLTGLFCLVFCVVKPDFSTCASRR	120
Db	61	ivttfvltililvaslpfvqdtkkrsllgtqvffllgtlglfclvfcvvpkpdfstcasrr	120
QY	121	FLFGVLFAICFSCLAHVFLNLFARKNHGPRGWVIFTVALLLTLVEVIINTEWLIITLV	180
Db	121	flfgvlfaicfsclaahvfalnlfarknhgprgwwiftvallltlveviintewliitlv	180
QY	181	RSGEGGPGQGNSSAGWAVASPCAIANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWK	240
Db	181	rgsgeggpgqgnssagwavaspcaianmdfvmaliyvmllllgaflgawpalcgryrkrwk	240
QY	241	HGVFVLLTTATSVAIWVWVIMYTYGNKQHSPTWDDPTLAIALAANAWAFVLFYVPEV	300
Db	241	hgvfvllttatsvaiwvwwvmytygnkqhnsptwddptlaialaanawafvlfyvihev	300
QY	301	SOVTKSSPEQSYQGDMPYTRGVGYETILKEQKQSMFVENKAFSMDPEVAAKRPVSPYSG	360
Db	301	sovtksspeqsyqgdmpytrgvgyetilkeqkgqsmfvenkafsmdepvaakrpvpsysg	360
QY	361	YNGQLLTSVYQPTMALMHKVPSEGAYDIILPRATANSQVMGSANSTLRAEDMYSQASHQ	420
Db	361	ynqqltstvyqptemalmhkvpssegaydiilpratansqvmgsanstlraedmysaqshq	420
QY	421	AATPPKDGKNSQVFRNPYVWD	441
Db	421	aatppkdgknsqvfrnpyvwd	441

QY 10 ccctcaccagccggaaagtacgagtcggctcagcctggagggaaccaaccagagcctggc 69
Db 15 ccctcaccagccggaaagtacgagtcggctcagcctggagggaaccaaccagagcctggc 74

QY 70 ctgggagccaggatggccatccacaaagccttggtgatgtgcctgggactgcctctcttc 129
Db 75 ctgggagccaggatggccatccacaaagccttggtgatgtgcctgggactgcctctcttc 134

QY 130 ctgttcccaggggacctgggcccagggccatgtcccaccggctgcagccaaggcctcaac 189
Db 135 ctgttcccaggggacctgggcccagggccatgtcccaccggctgcagccaaggcctcaac 194

QY 190 ccctgtactacaacctgtgtgaccgcctctggggcgctggggcatcgctcctggaggccgtg 249
Db 195 ccctgtactacaacctgtgtgaccgcctctggggcgctggggcatcgctcctggaggccgtg 254

QY 250 gctggggcgggcatgtgcaccacgtttgtgtcaccatcatcctggtggccagcctcccc 309

Db	255	gctggggcggggaattgtcaccacgttttgtgtctcaccaatcctgtgtggccagccctccc	314
QY	310	tttgtgcaggacaccagaacgagcctgtctgggaccaccaggtattcttccctctgggg	369
Db	315	tttgtgcaggacaccagaacgagcctgtctgggaccaccaggtattcttccctctgggg	374
QY	370	acctgggcctttctgcctctgtgtttgcctgtgtgtggtgaagccgacttctccacctgt	429
Db	375	acctgggcctttctgcctctgtgtttgcctgtgtgtggtgaagccgacttctccacctgt	434
QY	430	gcctctgcgcctctctcttttggggtttgttgcgcactgtgtttcttctgtctggcgct	489
Db	435	gcctctgcgcctctctcttttggggtttgttgcgcactgtgtttcttctgtctggcgct	494
QY	490	cacgttttgccctcaacttcttgcgcggaagaaaccaagggcccggtgtgtgtgac	549
Db	495	cacgttttgccctcaacttcttgcgcggaagaaaccaagggcccggtgtgtgtgac	554
QY	550	ttaactgtggtctgtctgtgacctgttagaggtcatcatcaatcacagagtggctgac	609
Db	555	ttaactgtggtctgtctgtgacctgttagaggtcatcatcaatcacagagtggctgac	614
QY	610	atcacccctgttcggggcagtgccgagggcgccctcaggggcaacagcagcgctgg	669
Db	615	atcacccctgttcggggcagtgccgagggcgccctcaggggcaacagcagcgctgg	674
QY	670	gcgtgtgctccctctgtgcctatgcgcaacatggaatttgttcagtgcactcatctacgtc	729
Db	675	gcgtgtgctccctctgtgcctatgcgcaacatggaatttgttcagtgcactcatctacgtc	734
QY	730	atgctgtctgctgggtgacctctctgggggcctggcccgccctgtgtggccctacaag	789
Db	735	atgctgtctgctgggtgacctctctgggggcctggcccgccctgtgtggccctacaag	794
QY	790	cgtgcgtgaagcatgggtctttgtgctctcaccacagccaacctcgttgcacatgg	849
Db	795	cgtgcgtgaagcatgggtctttgtgctctcaccacagccaacctcgttgcacatgg	854
QY	850	gtgggtgtgatcgtcatgtatacttaccgcaacaaagcagcacacaagtcctcctggat	909
Db	855	gtgggtgtgatcgtcatgtatacttaccgcaacaaagcagcacacaagtcctcctggat	914
QY	910	gacccacagctggcactgcctctgcgcgcaaatgtcctgggcttctctctctacgtc	969
Db	915	gacccacagctggcactgcctctgcgcgcaaatgtcctgggcttctctctctacgtc	974
QY	970	atccccaggtctccaggtgaccaagtcagccacagacaaagctaccagggggacatg	1029
Db	975	atccccaggtctccaggtgaccaagtcagccacagacaaagctaccagggggacatg	1034
QY	1030	tacccacacccggggcgtgggtctatgagaccactcctgaaagagcagaaggtctagagcatg	1089
Db	1035	tacccacacccggggcgtgggtctatgagaccactcctgaaagagcagaaggtctagagcatg	1094
QY	1090	ttcgtggagaacaagcccttttccatggatgagccggttgcagctaaagagccggtgtca	1149
Db	1095	ttcgtggagaacaagcccttttccatggatgagccggttgcagctaaagagccggtgtca	1154
QY	1150	ccatacagcgggtacaatgggcagctgctgaccagttgttaccagccactgagatggcc	1209
Db	1155	ccatacagcgggtacaatgggcagctgctgaccagttgttaccagccactgagatggcc	1214
QY	1210	ctgatgcacaaagtctccgtccgaagagcttacgacatactctccagggccacccgcc	1269
Db	1215	ctgatgcacaaagtctccgtccgaagagcttacgacatactctccagggccacccgcc	1274
QY	1270	aacagccaggtgatgggcagtgccaaactgcacctgcgggtgaagacatgtactcgcc	1329
Db	1275	aacagccaggtgatgggcagtgccaaactgcacctgcgggtgaagacatgtactcgcc	1334
QY	1330	cagagccacagcgggccacaccgcggaagcagcgcaagaactctcagggtctttagaac	1389

Sequence Alignment

RESULT 8

Page 4

US-10-097-065-146

; Sequence 146, Application US/10097065
; Publication No. US20030055236A1

GENERAL INFORMATION:

; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: PZ021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 146
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (400)
; OTHER INFORMATION: Xaa equals stop translation
US-10-097-065-146

Query Match 87.1%; Score 384; DB 9; Length 400;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
Db	1	MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
QY	61	IVTTFVLTIIIVASLPFVQDTKKRSLLGTVFLLGLTGLFCLVFACVVKPDFSTCASRR	120
Db	61	IVTTFVLTIIIVASLPFVQDTKKRSLLGTVFLLGLTGLFCLVFACVVKPDFSTCASRR	120
QY	121	FLFGVLFAICFSCLAHVAFALNFLARKNHGPRGWVIFTVALLTLVEVIINTEWLIITLV	180
Db	121	FLFGVLFAICFSCLAHVAFALNFLARKNHGPRGWVIFTVALLTLVEVIINTEWLIITLV	180
QY	181	RSGEGGPQGNSSAGWAVASPCAIAANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWK	240
Db	181	RSGEGGPQGNSSAGWAVASPCAIAANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWK	240
QY	241	HGVFVLLTTATSVAIWVWVIVMYTYGNKQHNSTWDDPTLAIALAANAWAFVLFYVIPEV	300
Db	241	HGVFVLLTTATSVAIWVWVIVMYTYGNKQHNSTWDDPTLAIALAANAWAFVLFYVIPEV	300
QY	301	SQVTKSSPEQSYQGDMYPTRGVGYETILKEQKQSMFVENKAFSMDEPVAAKRPVSPYSG	360
Db	301	SQVTKSSPEQSYQGDMYPTRGVGYETILKEQKQSMFVENKAFSMDEPVAAKRPVSPYSG	360
QY	361	YNGQLTTSVYQPTMALMHKVPSE	384
Db	361	YNGQLTTSVYQPTMALMHKVPSE	384